

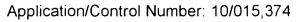
UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 2810		
10/015,374		12/12/2001	Kwang Seok Oh	W2K1070			
23504	7590	01/15/2003					
WEISS & I			EXAMINER				
4204 NORTH BROWN AVENUE SCOTTSDALE, AZ 85251				WILLIAMS, ALEXANDER O			
				ART UNIT	PAPER NUMBER		
				2826			
				DATE MAILED: 01/15/2003	DATE MAILED: 01/15/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	_				& Comment			
		Application	ı No.	pplicant(s)				
(10/015,374		OH ET AL.				
نعة	Office Action Summary	Examin r		Art Unit				
		Alexander (2826				
Period fe	Th MAILING DATE f this communication app or Reply	pears on the	cov rsh et with the co	orrespond nce ad	ldress			
A SH THE - Exte after - if the - if NO - Faile - Any	IORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insigns of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. To period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period varieto reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no even y within the statut will apply and will , cause the applic	t, however, may a reply be timory minimum of thirty (30) days expire SIX (6) MONTHS from the total to become ABANDONED	ely filed will be considered timel he mailing date of this c 0 (35 U.S.C. § 133).				
1) <u>\</u>	Responsive to communication(s) filed on 29 (October 200:	>					
2a) [· · · · · · · · · · · · · · · · · · ·	is action is r	- •					
3)	,							
Disposit	ion of Claims							
4)⊠	Claim(s) <u>1 to 9, 12, 16, 21, 22 and 39-46</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>43-46</u> is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
6)🖾	Claim(s) <u>1 to 9, 12, 16, 21, 22 and 39-42</u> is/are rejected.							
7) 🗌	Claim(s) is/are objected to.							
,	Claim(s) are subject to restriction and/o ion Papers	r election red	quirement.					
	The specification is objected to by the Examine	r						
	The drawing(s) filed on is/are: a) accept		hicated to by the Evan	niner				
10/[_1	Applicant may not request that any objection to the							
11)	The proposed drawing correction filed on		· ·		er			
,	If approved, corrected drawings are required in rep	- ' ' '	, , .		.			
12)	The oath or declaration is objected to by the Ex	•						
Priority (under 35 U.S.C. §§ 119 and 120							
13)🖂	Acknowledgment is made of a claim for foreign	n priority und	er 35 U.S.C. § 119(a)	-(d) or (f).				
a)	☑ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority documents	s have been	received.					
	2. Certified copies of the priority documents have been received in Application No							
* (3. Copies of the certified copies of the prior application from the International But	reau (PCT R	ule 17.2(a)).		Stage			
	* See the attached detailed Office action for a list of the certified copies not received. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
•) The translation of the foreign language pro	, ,	•	•	- αρριισατιστή,			
	Acknowledgment is made of a claim for domesti							
Attachmen	t(s)							
2) 🔲 Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>7</u>	Ę		(PTO-413) Paper Nor atent Application (PT				



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Serial Number: 10/015374 Attorney's Docket #: WK2K1070

Filing Date: 12/12/01; claimed foreign priority to 3/9/2001

Applicant: Oh et al.

Examiner: Alexander Williams

Applicant's election of Species I (claims 1 to 9, 12, 21, 22 and 39-42) in Paper # 6, filed 10/29/02, has been acknowledged.

This application contains claims 43 to 46 drawn to an invention non-elected with traverse in Paper No. 6.

Claims 10, 11, 13-15, 17-20 and 23-38 have been canceled.

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Initially, it is noted that the 35 U.S.C. § 103 rejection based on an adhesive and an insulator deals with an issue (i.e., the integration of multiple pieces into one piece or conversely, using multiple pieces in replacing a single piece) that has been previously decided by the courts.

In <u>Howard v. Detroit Stove Works</u> 150 U.S. 164 (1893), the Court held, "it involves no invention to cast in one piece an article which has formerly been cast in two pieces and put together...."

In <u>In re Larson</u> 144 USPQ 347 (CCPA 1965), the term "integral" did not define over a multi-piece structure secured as a single unit. More importantly, the court went further and stated, "we are inclined to agree with the solicitor that the use of a one-piece construction instead of the [multi-piece] structure disclosed in Tuttle et al. would be merely a matter of obvious engineering choice" (bracketed material added). The court cited <u>In re Fridolph</u> for support.

In re Fridolph 135 USPQ 319 (CCPA 1962) deals with submitted affidavits relating to this issue. The underlying issue in In re Fridolph was related to the end result of making a multi-piece structure into a one-piece structure. Generally, favorable patentable weight was accorded if the one-piece structure yielded results not expected from the modification of the two-piece structure into a single piece structure.

Claims 1 to 9, 12, 21, 22 and 39-42 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Lin (U.S. Patent # 6,333,562 B1).

For example, in claim 1 and similar claims 22 and 39, Lin (figures 1 to 12) specifically figure 4 show a semiconductor package **400** comprising: a substrate **330**; a first semiconductor chip **310** coupled to a surface of the substrate, the first



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semiconductor chip having first and second surfaces which are substantially flat in nature; an adhesive layer coupled to the second surface of the first semiconductor chip; a second semiconductor chip 320 having first and second surfaces which substantially flat in nature; and an insulator 340 coupled to the first surface of the second semiconductor chip for preventing shorting of wirebonds wherein the second semiconductor chip is coupled to the adhesive layer by the insulator coupled to the first surface thereof.

Therefore, it would have been obvious to one of ordinary skill in the art to use the adhesive and the insulator as "merely a matter of obvious engineering choice" as set forth in the above case law.

Field of Search	Date
U.S. Class and subclass: 257/685,686,723,777,784,786	1/13/03
Other Documentation: foreign patents and literature in 257/685,686,723,777,784,786	1/13/03
Electronic data base(s): U.S. Patents	1/13/03

Papers related to this application may be submitted to Technology Center 2800 by facsimile transmission. Papers should be faxed to Technology Center 2800 via the Technology Center 2800 Fax center located in Crystal Plaza 4-5B15. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center 2800 Fax Center number is (703) 308-7722 or 24. Only Papers related to Technology Center 2800 APPLICATIONS SHOULD BE FAXED to the GROUP 2800 FAX CENTER.

Any inquiry concerning this communication or any earlier communication from the examiner should be directed to *Examiner Alexander Williams* whose telephone number is **(703)** 308-4863.

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Any inquiry of a general nature or relating to the status of this application should be directed to the *Technology Center 2800 receptionist* whose telephone number is (703) 308-0956.

1/13/03

Primary Examiner Alexander O. Williams